Date: Mon, 20 Jun 94 16:32:54 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #686
To: Info-Hams

Info-Hams Digest   Mon, 20 Jun 94   Volume 94 : Issue 686

Today's Topics:
                         A P R S aprs news
                      AR 'etiquette' (2 msgs)
                        Astron Power Supply
                       contact with all CQ's
                   FIELD DAY SHOW BY ANNUAL WINNERS
                  GMC Suburban and TS-50 Compatibility
                            Honk it out.
                      Nicad Batteries (2 msgs)
                            pc radio??
                      SoundBoard scope program
                 Transmission Line Impedance: Why so many?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 20 Jun 1994 13:32:18 -0700
From: ihnp4.ucsd.edu!news.cerf.net!ccnet.com!ccnet.com!not-for-
mail@network.ucsd.edu
Subject: A P R S aprs news
To: info-hams@ucsd.edu

Ported from the amateur packet data stream...

****

                        APRS Newsletter 1 of 2

June 12, 1994

It has been a long time since the last issue went out of the APRS
newsletter so I thought I would throw together a little something
and see if we can get the mail flow going again since Dayton. It
was at about the time Dayton was over that all of the APRS mail
for both the newsletter and in general messages to APRS@USBBS
almost came to a complete halt. This by no means seems to be a
sign that interest is droping off, on the contrary I seem to see
an increase on the bands, both on our local VHF Net and on the 30M
frequency. While in the past APRS mail was so heavy every day I
would capture to disk all of the messages to APRS in general and
personally for the newsletter and read them later off line. Since
Dayton I can probably count on one hand what has come in. In some
ways I am lucky, in this interim I have switched to a 486DX2/66
under Windows and Word Perfect 6.0 Windows that I am still trying
to learn. This "Newsletter" is more a call for articles and
comments from all the APRS users out there as before so we can get
the ball on the roll again. It seems that everyone enjoyed the
news from other parts of the country and various ideas so let's
get it going once more now that everyone that went to Dayton has
had a chance to rest up. Most of what I am including in this
issue is information that I have gathered from the HF net and
local activity here in South Florida. I would like to especially
hear from the New England Net who has not been seen for quite some
time on HF and the SF Bay Area Net since we do not get much of a
chance to contact them on HF due to conditions. For the local
groups who do not have a HF Gateway please check in and let us
know you are there and what you have going on.

                        Words from WB4APR

I recently spoke to Bob and he states that some stations using
APRS on a 8088 in HSP mode may have some problems with the Comm
port backing up with GPS data. This problem may have been around
for quite some time, but no one may have tried the HSP box with a
8088 and a VERBOSE GPS till' now so this problem should be
resolved soon, if not all ready for a future version of APRS.
Bob and I also spoke of an idea that I had of placing objects on
the actual APRS maps instead of needing to uplink them on
a possibly busy frequency and worrying if a late addition on the
net does not have it on the map. Bob posed great interest in
adding this to MAPFIX.BAS and hopefully will have it available on
the next major version. What this will do is permit APRS
users to save the various object ICONS to the actual map just as
if you were drawing a new street on a pre-drawn APRS map. This
will give us the ability in a emergency situation to run APRS and
already have the various care centers (Hospitals, Shelters, Supply

Distribution Points, Fire Houses, Police Departments) and other
interest points as Airports, Hellistops, Communication Towers,
Digi's, Repeaters, etc. on our map. The need to have someone
bother uplinking objects and tying up the frequency can detract
from other more important chores when a comm point is first
mobilized. Bob also stated that over the Memorial Day weekend he
completed quite a number of new ICONS that should be in the next
upgrade of APRS. This should work well with the new idea of
drawing local specialized maps. Well it's that time of the year
and the USNA cadets are out in training. If you would like to see
them in "action" tune into 6260 MHz or 5250 MHz but REMEMBER TO
DISABLE YOUR TRANSMITTER!! this is not an amateur allocation.

Hurricane Season is Here

Moments before sitting at the PC to write this I was attending the
Hurricane Awareness presentation at the local mall which was
attended by the local county EOC's and sponsored by our local ABC
TV affiliate just to mention a few. Who will be the first to track
the first storm of the season with APRS? As I am writing this the
Tampa Bay area is posting a simulated Hurricane on APRS which is
coming back to FL's East Coast VHF Net via the HF GATE. KK4XI and
KD4UYR with Pinellas County are quite involved in APRS
implementation and did a demonstration at this weeks Hurricane
Symposium. The Palm Beach County EOC Director who is also a active
ham was in attendance and impressed, now he has a copy of v5.03 in
his possession after seeing earlier versions of APRS during a
packet meeting held at the county EOC. Hurricanes are a concern
mostly of the tropics but I would like to hear from other in the
central and northern latitudes and how they have used APRS so we
can pass it along to other users.

LL BBS's with APRS

If anyone is interested in getting APRS via LL modem the ARN BBS
is the first place that new APRS files are posted, shall we call
it the "File Server" ??? Many times the BBS will be busy
especially just after a new release of APRS, so I have started
posting all APRS files and programs on a local BBS here in Palm
Beach County Florida. The BBS is called Ham Bites BBS and is run
by Jay KD4VBS at (407) 575-9680 (DATA). The BBS is a full service
board and runs 14.4K 24 hours a day 7 days a week. The BBS is not
very busy at all so your chances of logging on at the first call
are great and I will try to have all new versions of APRS on-line
within 24 hours of posting on ARN. For some of you it may be less
expensive to call FL than MD so this is another plus, I would like
to try to get this idea to spread to other parts of the country so
everyone can save a few dollars and also be able to have access to

the program without needing to listen to 2 or more hours of busy
signals. With this in mind I am putting out a call for APRS users
who are BBS sysops to send me all of the information and a
"commitment" to do there best of getting the newest version of
APRS on their BBS as soon as it is released. I will then compile a
list of these BBS's and try to organize another level of servers
for larger states which could use 2 local APRS Servers so LL costs
are kept to a minimum for all. California, Florida, Texas, and New
York are examples of a few states that can use a few BBS's to
serve the state with APRS files. Let's start the project with an
Ohio BBS that I saw some mail from.

John KB8JXO Columbus Ohio (614) 443-4249 up to 14.4K (US Robotics
Users D/C Automatic Compression) KB8JXO@WB8CQK.#CMH.OH.USA.NA

                     Continued in Part 2 of 2
                de Rich N2CZF@WB4MOZ.#WPBFL.FL.USA

                    APRS Newsletter 2 of 2
                         June 13, 1994

                  Other APRS Frequencies.....

Various APRS frequencies are popping up starting on HF we have
7.085 / 10.151 / 14.098 LSB. On VHF 145.79 is becoming
quite a standard but I have heard of 145.01 being used in
California, 145. 77 in Montreal, 147.345 in Southern NJ while
145.79 is in use in Central and Northern NJ. What frequency is
being used in your area and if it is not 145.79 is there any
particular reason? Many frequency coordination councils are
accepting 145.79 as a standard APRS frequency and it is
making the wish of .79 being nationwide somewhat of a possibility
If any of you have contact with your local packet or
repeater committee please see if you can initiate a proposal that
145.79 will be set aside for the APRS Network.

                    ARRL Repeater Directory

As many of you know the ARRL Repeater Directory does have a
listing of various packet BBS's and Digi's in the back of their
book. A quick look at the state of Maryland has a listing for
145.79 with Various under location and call and WIDE under
notes. If you have an established APRS net in your area please
make it a point to submit a form to the ARRL to so it will be
listed for any traveling APRS user. An idea may be to list all
the WIDE area digi's serving the state and at least what town it
is in so others can have an idea if it can be reached from their

location or not. WIDE under notes or whatever the alias is a
great idea and maybe the addition of a space and a G would inform
others that a GATEWAY serves that digi's service area.

PacComm's Endorsement of APRS

I have recently just received the Spring edition of the PacComm
Catalog and was pleasantly surprised when I opened it to find
APRS as big as life! on it's front cover. PacComm in the past has
been thoughtful of the APRS user and it seems that the support
will continue. I have spoken to one of their code writers and
passed along the idea of having the firmware understand APRS's
Query command of ?APRS which it transmits upon startup. This
addition to the code would permit more users to be active even
without a PC and permit them to keep their beacon interval to a
minimum. Maybe more of the TNC manufacturers will catch on and
provide commands for APRS use on their TNC's. The more publicity
that the manufacturers give APRS the stronger we will grow.

Networking APRS into a System

I am looking for suggestions and help from others on possibilities
for linking APRS into a LARGE network. Here in the South Florida
area we have seen a steady but slow growth of APRS. One of the
problems is that interest seems to crop up between 2 or so
stations and these stations seem to be just a bit too far from the
others to maintain a reliable link all the time. One of our
specific problems is that we do not have any "man made towers" and
to get any decent range on VHF/UHF we must have access to towers
of significant height. Yes, we do not have the shadow problems
that other states have with high mountains but usually those
mountains are a blessing since it is easier to get a site on one
than on a already jam packed 300 or 500 ft. tower. A 300 or 500
ft. tower is also usually no where near the altitude that a "small
hill" in some states can offer, so a "good site" for us is quite
poor in some respects to our Northern and Western brothers. The
way this comes into play with APRS is that we need many more WIDE
area digi's to cover what in some areas can be covered with two or
so. The unique problem that we face (and I am sure many other
southern states will in the future) is that this makes the [UI]
packet UNPROTO wording difficult. If given unlimited resources
with equipment and digi's we could put up enough of them to cover
the Southern portion of Florida but how do we make sure that all
of the packets will make it thru the system without the need to
change the UNPROTO path every time we need to go in another
direction. The point of a WIDE AREA NETWORK with APRS is that
EVERYONE can see what is going on and also track support/supplies
on the way to and from any disaster areas. With one common network

we may have a high level of traffic but after experiencing the
Army/Navy Football run I am sure we can handle the traffic as long
as we have some sort of control over idle chatter. This will give
us the ability to assign certain UPLINKING tasks to distant APRS
stations that may not be as busy with traffic, or the task of
Hurricane Position UPLINKS from the National Hurricane Ctr. in
Coral Gables so everyone in South Florida can copy the 1 original
position report. Any comments or help would be appreciated......

                        Final Comments

The HF Net has been doing well with no problems to speak of other
than the summer propagation, APRS got a great boost from PacComm,
growth seems to be at a slow but consistent level, and many more
stations seem to be springing for the addition of a GPS receiver,
we can't ask for anything more than that! I would like to hear
from anyone who attended the APRS presentation Saturday night in
Dayton. I am sure there was much to speak about that many of us
poor souls who worked instead missed out on. I was told that a
informal article was going to be written up for the newsletter but
I have yet to receive it, so if someone would like to please do
so. Just write it up, maintain it to 70 columns wide so I can
paste it directly to the next newsletter and write it as if it
were directed to everyone.

            73's to all de Rich N2CZF Jupiter FL.
       Address all packet mail to: N2CZF@WB4MOZ.#WPBFL.FL.USA
----- End of message 8121 from N2CZF @ WB4MOZ.#WPBFL.FL.USA.NA -----

--
    Bob Wilkins   work   bwilkins@cave.org
 Berkeley, California   home   rwilkins@ccnet.com
    94701-0710   play   n6fri@n6eeg.#nocal.ca.usa.noam

Date: Mon, 20 Jun 94 11:01:00 -0800
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!usenet.ins.cwru.edu!
ns.mcs.kent.edu!kira.cc.uakron.edu!malgudi.oar.net!infinet!nitelog!
mario.campos@network.ucsd.edu
Subject: AR 'etiquette'
To: info-hams@ucsd.edu

Subject: Re: AR 'etiquette'

===
Packet: NITELOG
Date: 06-17-94 (06:57)   Number: 19239

```
From: Christoper Ogren           Refer#: NONE
  To: ALL                        Recvd: NO
Subj: Re: AR 'etiquette'          Conf: (2099) RecRadAmtMisc
-------------------------------------------------------------------------
CO>mentioned that 73's was technically incorrect.  But who's counting [please
CO>pardon the pun].  I would normally say propper etiquette is something
CO>learned by example not necessarily read about...but given the state of
CO>affairs in amateur radio now [at least in my vicinity] I would highly
CO>advise against that method.  In my area there seems to be less and less
CO>courtesy and good operating practices everyday.  This is happening for
CO>a whole host of reasons which I will refrain from right now.  I guess
CO>try to make the best of a bad situation.

 You got that right! My friends ask why I'm not on 2 meters as I used to be.
 I too shall refrain from making any comments other than that 2 meters is
 slowly becoming the cellular phone system of ham radio. I do not enjoy
 listening to phone patches, husbands or wives telling each other to pick up
 the kids at Grandmas, they'll be home in 5 minutes, etc., etc.! My way out
 is not to turn on the rig or go simplex to chat!

 * QMPro 1.52 * mario.campos@nitelog.com - N6ALS@K6LY.#NOCA.CAL.USA.NOAM


 ------------------------------

Date: Mon, 20 Jun 94 09:25:00 -0800
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!usenet.ins.cwru.edu!
ns.mcs.kent.edu!kira.cc.uakron.edu!malgudi.oar.net!infinet!nitelog!
mario.campos@network.ucsd.edu
Subject: AR 'etiquette'
To: info-hams@ucsd.edu

Subject: Re: AR 'etiquette'

===========================================================================
Packet: NITELOG
Date: 06-17-94 (06:57)              Number: 19239
From: Christoper Ogren           Refer#: NONE
  To: ALL                        Recvd: NO
Subj: Re: AR 'etiquette'          Conf: (2099) RecRadAmtMisc
-------------------------------------------------------------------------
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CO>pardon the pun].  I would normally say propper etiquette is something
CO>learned by example not necessarily read about...but given the state of
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CO>advise against that method.  In my area there seems to be less and less
CO>courtesy and good operating practices everyday.  This is happening for
CO>a whole host of reasons which I will refrain from right now.  I guess
CO>try to make the best of a bad situation.
```

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listening to phone patches, husbands or wives telling each other to pick up
the kids at Grandmas, they'll be home in 5 minutes, etc., etc.! My way out
is not to turn on the rig or go simplex to chat!

 * QMPro 1.52 * mario.campos@nitelog.com - N6ALS@K6LY.#NOCA.CAL.USA.NOAM

Date: 20 Jun 1994 19:11:06 GMT
From: eagle.bet.ibm.com!inetgw.fsc.ibm.com!biekert@uunet.uu.net
Subject: Astron Power Supply
To: info-hams@ucsd.edu

We have an Astron 35M power supply on our repeater. Normally there is no
problem, however, when there is a power glitch the power supply has a protection
circuit which shuts off the power and it takes a manual throwing of the on/off
switch to restore power. This means a trip to the repeater site to spend 20
seconds throwing the switch.
Does anyone know how to defeat this 'protection' circuit. Since we don't have a
key to the site we have to hassle the owners at $60 a pop!

Thanks Bob KA5GLX Houston, Tx
biekert@vnet.ibm.com

Date: Mon, 20 Jun 1994 20:32:47 GMT
From: ihnp4.ucsd.edu!sdd.hp.com!col.hp.com!csn!yuma!lamar.ColoState.EDU!
drranu@network.ucsd.edu
Subject: contact with all CQ's
To: info-hams@ucsd.edu

     I have been collecting as many CQ QSL's as possible and would
     like to increase mine and aid in others'. Of course by this
     I mean having a "CQ" in the call. I would be more then happy
     to set up a sked with any fellow CQ'ers, or heck, ANYONE for
     that matter!

     Please contact me with your interest!

--
     -Emarit   drranu@lamar.ColoState.EDU

     KG0CQ   _._ __. _____ _._. __._

Date: Fri, 17 Jun 1994 17:41:15
From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!howland.reston.ans.net!
europa.eng.gtefsd.com!sundog.tiac.net!news2.sprintlink.net!news.sprintlink.net!
indirect.com!s146.phxslip.indirect.com!lenwink@@.
Subject: FIELD DAY SHOW BY ANNUAL WINNERS
To: info-hams@ucsd.edu

This Sunday, June 19, Ham Radio & More will feature John Crovelli, W2GD,
as the special guest. John's team wins Field Day 4A almost every year!
Find out why and also find out some secrets as the usual 2nd place team,
Scottsdale ARC represented by Lee Finkel, KY7M, demands secrets as
he is also a guest. Ham Radio & More every Sunday at 6:00pm EST on
the Talk America Network, 22 national stations, and TVRO, Spacenet 3,
Transponder 9, 6.8 audio.
73,

Len, KB7LPW

Date: Mon, 20 Jun 1994 18:51:49 GMT
From: ihnp4.ucsd.edu!sdd.hp.com!spool.mu.edu!howland.reston.ans.net!usc!
elroy.jpl.nasa.gov!llyene!jta@network.ucsd.edu
Subject: GMC Suburban and TS-50 Compatibility
To: info-hams@ucsd.edu

Good afternoon! While not a regular reader of this area I get occasional
snippets sent my way by the regulars.

I own a '93 GMC Suburban that has at present inventory a TS-50 with associated
AT-50 antenna tuner, a Realistic PRO-2006 scanner (25-1300MHz), a Kenwood
TM-741 w/ 2m, 440 and 1.2GHz, a Yaesu FT-209 2-m handheld connected to a
Kantronics KPC-3 TNC.

The TS-50 suffers very little from Sub-generated electrical interference.
There is a small and acceptable amount of ignition noise that I can
hear. The truck does not seem to generate too much low-frequency EMI. The
antenna is left-side bumper mounted, with either Hustler resonators for the
low bands 40/80 and an 8-foot whip for the high bands. The radio is mounted
immediately ahead of the center console and the antenna tuner is under the
front passenger seat (yes, I know the tuner should be closer to the antenna;
I'm working on it...).

In terms of experience, I have run 300k+ miles with HF in diesel-powered
(underpowered) Rabbits and know what quiet HF mobile performance is like.

Imagine being able to detect incoming Toyotas at 2000 yards!

The TM-741 display unit is immediately under the TS-50; the radio unit is under
the rear left fullsize passenger bench. The radio suffers from an intermittent
interference generated by the truck on the 440MHz band. This interference
is very low level but is sufficient to break squelch on the radio at generally
all settings. It consists of a bunch of spurs that are very frequency-stable.
One of the spurs is at 445.495MHz and my repeater output frequency is 445.500.
This one annoys me especially. Other handheld 440 radios have detected the
same interference but it is very dependent on antenna orientation and position.
I have not made the effort yet to locate the source.

The PRO2006 went in just this past weekend and uses a coupler to share the
AM/FM BCB antenna. So far, other than the lack of extreme sensitivity which
I normally enjoy with this radio (due probably to the crummy antenna selection)
the radio appears to behave well. Time will tell, and the antenna choice may
have to change.

The KPC3 generates essentially no discernable noise except on 10m. Which is
typical (for some reason) but the level of the interference is very low. I
will be changing out the FT-209 2m HT for a 10m mobile radio (Uniden or
Motorola if I'm really industrious) and so this is a concern for me. However,
at this moment it is always possible for me to shut off the KPC3 if I need to
work 10m meteor-scatter or some other very low SNR mode.

All in all I would have to say that the Suburban is quite compatible to my
HF radio but that its UHF performance leaves something to be desired.

73 - Jon

Date: 20 Jun 94 22:33:22 GMT
From: news-mail-gateway@ucsd.edu
Subject: Honk it out.
To: info-hams@ucsd.edu

> We are now friends and honk CQ when we see each other on
>the road.

Honking is a good way of showing ham friendship. For all of the years I can
remember since WWII, hams have honked " . . . . . . " (HI). When dial
telephones were a rage, local hams would remove and modify the dial such that
it would send . . . .   when the number "9" was pulled and released.
After modification, the dial was mounted behind the steering wheel on the

vehicle for easy access for pulling a "9".

73

Hugh Wells,   W6WTU

Date: Mon, 20 Jun 1994 19:20:20 GMT
From: ihnp4.ucsd.edu!sdd.hp.com!hpscit.sc.hp.com!cupnews0.cup.hp.com!
uppal@network.ucsd.edu
Subject: Nicad Batteries
To: info-hams@ucsd.edu

>At $50 for
>a factory pack, and $5.00 for a set of 6 cheapo NiCds, you
>can't lose.

The battery case gets you though!. The case for my FT-415 costs
$20. The off-the-shelf Nicads do come out ahead but not by quite
as much.

Question: Has anyone tried out the AA Nicads ("Infinity") at
the Warehouse Clubs (Price/Costco etc.) ?. They are quite
attractive economically: $8 for a pack of 8 and $13 for the
charger.

Sanjay

Date: 20 Jun 1994 20:38:34 GMT
From: ihnp4.ucsd.edu!agate!kennish@network.ucsd.edu
Subject: Nicad Batteries
To: info-hams@ucsd.edu

In article <Crpn1w.AxC@cup.hp.com>, Sanjay Uppal <uppal@cup.hp.com> wrote:
>>At $50 for
>>a factory pack, and $5.00 for a set of 6 cheapo NiCds, you
>>can't lose.
>
>The battery case gets you though!. The case for my FT-415 costs
>$20. The off-the-shelf Nicads do come out ahead but not by quite
>as much.

Yeah, but once the cells go bad, you can replace them
for $5.00 and you're off running again. The real savings
come after multiple "packs" as you don't have to buy the case

over.

>
>Question: Has anyone tried out the AA Nicads ("Infinity") at
>the Warehouse Clubs (Price/Costco etc.) ?. They are quite
>attractive economically: $8 for a pack of 8 and $13 for the
>charger.
>

Yup. You get what you pay for. The cells are OK, about 550 mAh, maybe
600. They don't seem to be that durable, but hey, I get em for $7 for
a pack of 8. That's less than a dollar a cell. I've just tossed
my original set, and am running on the second set -- so far no problems.
The biggest problem is that the label falls apart easily, and that
is your insulation. Have to watch out for shorts inside the pack due to
two cells in series touching each other.

Now, DAK industries was selling Fuji cells for $15 per 12 pack, but
haven't gotten around to trying those out yet. The charger is OK.
By tilting the AA cell to touch the C/D cell contact, you can quick
charge the cells at 380 mA if you're careful.

  -Ken

Date: 20 Jun 1994 10:55:14 -0700
From: ihnp4.ucsd.edu!news.cerf.net!ccnet.com!ccnet.com!not-for-
mail@network.ucsd.edu
Subject: pc radio??
To: info-hams@ucsd.edu

I am looking for a receiver that can be interfaced to a PC.
Could be plug-in card or stand alone with interface. Should include
commercial FM bands.
Anybody out there know any solutions to this?
Thanks in advance.
John ex-K2VDO.

Date: Mon, 20 Jun 94 11:32:54 PDT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!gatech!asuvax!chnews!
news@network.ucsd.edu
Subject: SoundBoard scope program
To: info-hams@ucsd.edu

Can anyone tell me where I can obtain a Microsoft Windows 5Mhz Oscilloscope

program that will run on my PC¸s sound board which supports stereo right/left channel input to display a lissajous pattern?

The reason I'm looking for this type of program, so I can attach my sound board¸s input, to my PK232 TNC¸s mark/space output, for tuning digital signals on the HF bands. Updates need to occur at a minimum of 2 seconds to make tuning functional, and the oscilloscope display Windows needs to be scaleable in size.

Tom WB7ASR...

Date: Mon, 20 Jun 1994 17:13:18 GMT
From: ihnp4.ucsd.edu!swrinde!emory!rsiatl!ke4zv!gary@network.ucsd.edu
Subject: Transmission Line Impedance: Why so many?
To: info-hams@ucsd.edu

In article <2u44fg$l6s@sol.sun.csd.unb.ca> a4q4@jupiter.sun.csd.unb.ca (D.J.Trynor EE) writes:
>It seems that there are so many transmission lines impedances (i.e 50, 75,
>300 ohms).
>Is there a technical reason for this or was it merely a development of
>different standards?

At least for coax, there are technical reasons. 75 ohm *air line* (actually
76.708 ohms) has the lowest loss of any impedance coax. If we replace
the air with polyethelene, we have 50 ohm cable (actually 51.02 ohms).
That's because the ratio of conductor diameters for lowest loss is 3.59112:1
in both cases, the dielectric making the difference in surge impedance.

Gary

--
Gary Coffman KE4ZV | You make it, | gatech!wa4mei!ke4zv!gary
Destructive Testing Systems | we break it. | uunet!rsiatl!ke4zv!gary
534 Shannon Way | Guaranteed! | emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244 | |

Date: Mon, 20 Jun 1994 12:59:04 -0800
From: ihnp4.ucsd.edu!usc!elroy.jpl.nasa.gov!lll-winken.llnl.gov!apple.com!
kielbasa.apple.com!user@network.ucsd.edu
To: info-hams@ucsd.edu

References <199406162011.PAA08843@news.cs.utexas.edu>, <CrK0zL.5s0@wang.com>,
<1994Jun18.102458.2498@hnrc.tufts.edu>

Subject : Re: FCC licensing delay reason

In article <1994Jun18.102458.2498@hnrc.tufts.edu>, jerry@hnrc.tufts.edu
(Jerry Dallal) wrote:

> In article <CrK0zL.5s0@wang.com>, dbushong@wang.com (Dave Bushong) writes:
> > johnsoj@autsb.allied.com (Jeff Johnson) writes:
> >
> >>I was talking to the local ARRL VEC coordinator yesterday evening on 2M.
> >
> >>He informed me that the FCC is rewriting the software which prints
> >>technician licenses to indicate whether or not the technician has
> >>passed the code test or not.
> >
> > Oh, no. I hope the FCC isn't actually rewriting it.
> [snip]
> > They'll probably do it in COBOL.
>
> Then there's a chance it may actually work! :-)

And it must be done already, too, since I just got an updated license
that now reads 'Tech Plus'!

--
Don North   ----   Apple Computer, Inc.   ----   Advanced Technology Group
...!apple!north   north@apple.com   NORTH   KD6JTT   etc,etc,etc
{ Facts are facts, but any opinions expressed are my own, and *do not* }
{ represent any viewpoint, official or otherwise, of Apple Computer, Inc }

Date: 20 Jun 1994 18:39:19 GMT
From: library.ucla.edu!europa.eng.gtefsd.com!newsxfer.itd.umich.edu!
zip.eecs.umich.edu!yeshua.marcam.com!news.kei.com!ub!dsinc!netnews.upenn.edu!
gopher.cs.uofs.edu!triangle.cs@ihnp4.ucsd.edu
To: info-hams@ucsd.edu

References <2tst1c$7c6@news.ysu.edu>, <1994Jun18.015702.17911@mixcom.mixcom.com>,
<LEVIN.94Jun20133434@cassandra.bbn.com>.e
Subject : Re: Tech+ license issued.

In article <LEVIN.94Jun20133434@cassandra.bbn.com>, levin@bbn.com (Joel B Levin)
writes:
|>
|> I believe this started in March when the FCC began accepting the new
|> (current) form 610 (and ONLY that form). If you were to move, say,
|> and submit a photocopy of your CSCE with one of your license and a
|> change-of-address 610, I'll bet you'd get a new license that said Tech

```
|> Plus, too.
|>

What are they going to do about Tech's who don't have a CSCE becuase they
got their license long before there was a No-Code Technician Class??

bill   KB3YV

--
Bill Gunshannon         |   de-moc-ra-cy (di mok' ra see) n.  Three wolves
bill@cs.uofs.edu        |   and a sheep voting on what's for dinner.
University of Scranton  |
Scranton, Pennsylvania  |         #include <std.disclaimer.h>


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End of Info-Hams Digest V94 #686
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